SOUTHWEST ALASKA TRANSPORTATION PLAN

DATA INVENTORY TECHNICAL MEMORANDUM

prepared for the

Alaska Department of Transportation and Public Facilities

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INTRODUCTION

PURPOSE

The purpose of this Technical Memorandum is to describe existing data relevant to intercommunity transportation in the Southwest region and assess their adequacy in meeting the data needs for the development of the Southwest Alaska Transportation Plan. The uses for data in the transportation plan development process are discussed and existing sources of available data are identified. Additional data needs are described. A variety of data are examined, including demographic data, data on marine transportation, air transportation and land transportation, visitor data, and geographic data.

STUDY BACKGROUND

This study is preparing a regional transportation plan for the Southwest region of Alaska. This plan is part of a series of regional transportation plans being developed by the Alaska Department of Transportation and Public Facilities (DOT&PF) and is being prepared in coordination with the development of the Prince William Sound / Copper River Area Transportation Plan. The plan for each region will be developed separately, but coordinated where common issues overlap between the two regions. DOT&PF's goal is for each regional plan to serve as an elaboration of the Statewide Transportation Plan, Vision: 2020, that will focus on identifying projects that, over the life of the plan, will be included in the Statewide Transportation Improvement Program (STIP).

The transportation plan will encompass highway, air, and marine transportation modes. It will contain a set of recommended multi-modal transportation system improvements for addressing needs and improving the movement of people, vehicles and freight between communities within the region, and between the region and the outside world. The plan will focus primarily on commercial transportation and on connections between modes. The plan's recommended improvements will be phased through the year 2020 and accompanied by a range of alternative financial strategies based on different levels of investment. The plan will be used by DOT&PF to guide its decisions regarding operational and capital improvements for the region.

DATA USES

In order to ensure that the data being collected will be useful and effective, it is important to identify what the data will be used for. This section describes intended uses of data.

DEMOGRAPHIC DATA

Demographic data has traditionally been known to have a direct correlation with travel demand. Demographic data collected will be used primarily as a basis to forecast future travel demand.

Population and Employment

Existing population and employment data will be used as a base for disaggregating forecast data into smaller areas. Existing and forecast population and employment data will then be used to develop growth factors by which existing travel demand can be factored up to future demand estimate levels.

Community Characteristics

This data will primarily be used to identify potential travel patterns or needs that are currently not well served.

Visitor Attractions

This data will be used to assist in determining future visitor travel demand and patterns.

DATA ON TRANSPORTATION FACILITIES AND SERVICES

Existing facilities and services which serve regional travel are being inventoried. This data will be used to identify current service levels by mode by community, and to identify existing and future deficiencies.

Marine Transportation

Characteristics of marine facilities are being inventoried, including facility type, capacity and usage fees. Public and private marine travel services are being identified for both passenger and freight movement as applicable. Specific data being gathered includes routing, schedules, rates, and operating costs (if pertinent and as available).

Air Transportation

Characteristics of aviation facilities are being inventoried, including facility type, class, runway surface, length, services and fees. Air carrier services are being identified for both passenger and freight movement as applicable. Specific data being gathered includes routing, schedules, and rates as available.

Land Transportation

There are only four existing inter-community roads and no public bus service or railroad facilities in the Southwest Region. Consequently, there is similarly little data available on surface transportation. Roadway characteristics including facility type, classification and capacity are, however, being inventoried with an emphasis on these four locations:

- Aleknagik Dillingham
- Newhalen Iliamna Nondalton
- Naknek King Salmon
- Chiniak Kodiak

Previous planning efforts have identified other surface transportation needs that have not yet been programmed for implementation. These past studies will also be useful in developing potential transportation alternatives.

TRAVEL DEMAND DATA

Existing travel demand data by mode are being gathered from the various service providers and, to the degree possible, broken into three general categories – residents' travel, non-residents' business travel, and visitor travel. Existing freight movements into, out of, and within the region are also being identified by mode. Existing travel demand, for both person and freight movement, will then be factored up to future estimates using growth factors developed from the demographic data and redistributed by estimated future modes.

Personal and Business Travel

This category refers to residents' travel and visitors traveling to a Southwest Alaska destination on business.

Visitor Travel

This category focuses on recreational visitor travel.

Freight Movements

An attempt is being made to differentiate between freight demand related to ongoing regular residents' and local business' needs versus major resource imports/exports (which are frequently seasonal in nature). The type of freight service differs between these two general categories. Scheduled barge service tends to meet residential and local business freight needs, while on-demand freight carriers typically serve the needs of the major resource industries.

GEOGRAPHIC DATA

Geographic data will be used to document existing physical conditions and assess impacts and feasibility of proposed future improvements.

DATA SOURCES

Pertinent sources identified to date for each data category are listed in the attached tables.

DEMOGRAPHIC DATA

See Table 1 for a description of demographic data sources identified, a summary assessment of the data and a determination of its availability.

MARINE TRANSPORTATION

See Table 2 for a description of marine transportation data sources identified, a summary assessment of the data and a determination of its availability.

AIR TRANSPORTATION

See Table 3 for a description of air transportation data sources identified, a summary assessment of the data and a determination of its availability.

LAND TRANSPORTATION

See Table 4 for a description of land transportation data sources identified, a summary assessment of the data and a determination of its availability.

VISITOR DATA

See Table 5 for a description of visitor data sources identified, a summary assessment of the data and a determination of its availability.

GEOGRAPHIC DATA

See Table 6 for a description of geographic data sources identified, a summary assessment of the data and a determination of its availability.

Table 1

Data Availability and Assessment Status Southwest Alaska Transportation Plan

Population Popu				
Corr of Le of Le Regi Proje requ	Population data are available from the U.S. Department of Commerce, Bureau of the Census and from the Alaska Department of Labor, Research and Analysis Section. The Alaska Department of Labor data include annual population estimates, by community. Regional projections have been obtained for and disaggregate projections at the Borough/Census Area level have been requested.		Regional population projections have been prepared by the University of Alaska, Institute of Social and Economic Research.	Adequate data have been identified.
Employment 1995 have	1995 employment data, by Census sub-sub-area and SIC code, have been obtained from the Alaska Department of Labor. 1996 employment data have also been obtained.		Regional employment projections have been prepared by the University of Alaska, Institute of Social and Economic Research.	Adequate data have been identified.
Community Com	Community profile data are available from the Alaska Department of Community and Regional Affairs, Research and Analysis Section.	ailable from the Alaska Department of rs, Research and Analysis Section.		Need to solicit public health network descriptions. Otherwise, adequate data have been identified.

Marine Transportation Data Availability and Assessment Status

	Southwest Ala	Southwest Alaska Transportation Plan		
	Existing	Historical/Trends	Projections	Comments/Status
Alaska Marine Highway System Supply Routing Schedules Schedules revenue b Rates Operating Costs Demand Passengers Link Volumes O-D Volumes Revenue Freight Link Volumes O-D Volumes Revenue Revenue	System Data available from AMHS include routings, schedules, financial reports, operating cost and revenue by vessel, and monthly traffic and revenue data by origin-destination pair.	Monthly traffic data by origin-destination pair for the period from May 1988 through April 1997 have been obtained. Disaggregate revenue and operating cost data have been requested.		Adequate data are available. AMHS-carried cargo is also included in Corps of Engineers Water-borne Commerce data.
Private Operators* Supply Routing Schedules Rates Demand Passengers Link Volumes O-D Volumes O-D Volumes O-D Volumes O-D Volumes	Seven steamship companies and seven barge operators have been contacted to obtain routing, schedules and tariffs. These shippers represent the major support for communities in Prince William Sound and Southwest Alaska. It does not appear that there are any significant existing scheduled private passenger services offered, other than cruise ships. Corps of Engineers Water-borne Commerce data appear to have comprehensive data on import/exports by commodity type by port. Detailed information on CD-ROM.	Information on changes in service levels will be obtained to the extent these data are available. The objective will be to establish historical trends, and future projections, if possible. General historical trends should be available through Corps of Engineers hard copy records.	rvice levels will be data are available. lish historical , if possible.	Data are available. An interview form is being used for further contact. With the exception of cruise ship data (included in visitor data), no data related to private operators or private vessels have been identified for passenger. Continuing review of Corps of Engineers Water-borne Commerce data for O-D information. A custom sort has been requested from the WCSC for link volumes, O-D volumes, commodity distributions and port calls by draft.

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Marine Transportation Data Availability and Assessment Status Southwest Alaska Transportation Plan Existing Historical/Trends Projections

Table 2 (Continued)

Comments/Status

	Data Avail Southv	Data Availability and Assessment Status Southwest Alaska Transportation Plan	tatus n
	Existing	Historical/Trends Projecti	Projecti
Other			
Fishing Vessels	Will research fishing vessel licensing data from State Fisheries to determine	ta from State Fisheries to determine	
	applicability.		

Business Pub.); Ports of Southwest & Western Alaska, 1995 (COE); Recon Several excellent data sources identified --1995 Alaska Harbor & Boating Facilities Directory (DOT&PF); 1996 Ports of Alaska directory (Alaska (Tryck Nyman Hayes, Inc.). From these sources, comprehensive data available for all pertinent facilities in region including layout of facilities, vessel types accommodated, capacity, fees and operator. of Navigation Improvements, Western and Arctic Coasts, August 1997

Capacity Fees

Marine Facilities

Type

It appears sufficient marine facility data have been identified.

^{*} Note: Cruise ships recorded in visitor data

Data Availability and Assessment Status Southwest Alaska Transportation Plan

Air Transportation

	Existing	Historical/Trends	Projections	Comments/Status
Air Carrier Operations Supply Routing Schedules Rates Demand	Air carrier routing, schedule and rate information is available.	ı is available.		Adequate demand-side and supply-side data are available.
Passengers Link Volumes O-D Volumes Link Volumes O-D Volumes	is of data available from the include 1) Commute hub airports and des de Route Air Carriers de route (mainline) air traffic between comme carrier passenger include 1) Commute hub airports and des ated Route Air Carrier mail artificated route (mai commuter carrier mercarrier	8 9 9	Air travel projections from Master Plans will be reviewed for relevancy during travel forecasting stage of project. Air freight projections from Master Plans will be reviewed for relevancy during travel forecasting stage of project.	
Aviation Facilities Facility Type Class Runway Surface Length Services Fees	Data sources identified include the following: DOT&PF Alaska Aviation System Plan; FAA Airport Master Records; FAA Airport Improvement Programs; and DOT&PF Airport Master Plans relocation studies or Environmental Assessments (for 18 of the 53 Southwest AK communities in study area - including 4 borough seats). Combined, these sources contain inventories of all airports in the region listing airport locations, facility type, class, ownership, runway surface, condition & length, services, and based aircraft. Master plans provide information on future facility needs as well as issues associated with airport expansion or improvement. FAA Improvement Programs provide historical data on airport improvements and	le the following: DOT&PF Alaska Aviation System Plan; FAA Airport Improvement Programs; and DOT&PF Airport Master vironmental Assessments (for 18 of the 53 Southwest AK ncluding 4 borough seats). Combined, these sources containe region listing airport locations, facility type, class, ownershipength, services, and based aircraft. Master plans provide needs as well as issues associated with airport expansion or nent Programs provide historical data on airport improvements	em Plan; FAA Nirport Master thwest AK ources contain tss, ownership, rs provide xpansion or improvements and	Adequate aviation facility data are available.

Southwest Alaska Transportation Plan

Historical/Trends Existing

Projections

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Comments/Status

Passengers Supply

Highway

N/A - no scheduled, inter-community public carrier service exists. Public Carriers Routing

Schedules Fares

Demand

Highway

Link Volumes O-D Volumes Public Carriers

Private Vehicles

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Link Volumes

Vehicular link volume data, by season, is available from DOT&PF counts. O-D volume data are inherently available for single-mode trips due to

imited network, inter-modal O-D data are not available. O-D Volumes

Ä.

O-D pattern information will be sought through the travel behavior survey.

Supply

Routing Highway

Scheduled truck freight service routing and schedule data do not appear to be available, and may not exist.

Schedules Rates

Highway

Link Volumes O-D Volumes

Vehicular link volume data, by season, is available from DOT&PF counts.

O-D volume data do not appear to be available.

available. The effects of this lack of Desired data do not appear to be data are being assessed.

Data adequacy has not yet been determined.

Southwest Alaska Transportation Plan Data Inventory Technical Memorandum

Table 4 (Continued)

Land Transportation Data Availability and Assessment Status

Southwest Alaska Transportation Plan

Historical/Trends

Existing

Projections

Comments/Status

Land Transportation

Facilities *Highway*

Facility Type Classification Capacity

Road facility descriptor data are being obtained from DOT&PF, Central Region. Study area includes four inter-community roads (Aleknagik-Dillingham, Newhalen-Illiamna-Nondalton, King Salmon-Naknek, and Kodiak- Chiniak).

Several previous planning documents provide information on surface transportation conditions and needs in Southwest Alaska, including local TIPs and the STIP. Need projections from the following studies are being reviewed for relevancy to this plan: Alaska Intermodal Transportation Plan (covers Bristol Bay Haul Rd. and Cold Bay-King Cove connection), Lake and Peninsula Borough Intra-Village Road Project Priorities (covers Pile Bay Rd. and Chignik Inter-village system), Aleutian and Southwest Alaska Multimodal Transportation Study and the Bristol Bay/Upper Kuskokwim Area Transportation Needs Assessment Report (both are useful in establishing trends and historic baseline),

	>	Visitor Travel			
	Data Availabilit	a Availability and Assessment Status	tatus		
	Southwest A	Southwest Alaska Transportation Plan	ın		
	Existing	Historical/Trends	Projections	Comments/Status	
Marine	Data sources identified for visitor data include:			While considerable visitor information is	
Cruise Snips AMHS	1) Alaska Department of Natural Resources			avallable, out-or-state visitor data, in particular, is increasingly out-of-date.	
Air Surface	a) Division of Lands - issues permits for commercial use of state land. Records are available on the number of permits issued annually, plus each	permits for commercial use of state land. number of permits issued annually, plus each		Visitor travel modes and O-D patterns	
Highway	permit holder is required to submit an annual report documenting number of users.	port documenting number		will be inferred from facility/vehicle volumes and site visitation data.	
	b) <i>Division of Parks</i> - maintains rough records of use of State Parks, such as Wood-Tikchik; and use of State public use cabins. Approximately	of use of State Parks, such abins. Approximately			
	every 5 years State Parks also conducts statewide recreation survey (SCORP). The next such survey is scheduled to be done in the coming year.	ide recreation survey to be done in the coming			
	`				
	2) <u>Alaska Department of Fish and Game</u> a) Detailed annual surveys of sportfishing and hunting activity by	unting activity by			
	management district				
	 b) Estimates of Visitation to select state game reluges and sanctuaries (e.g., Walrus Island). 	eruges and sanctuaries			
	c) Locations, changes in numbers of setnet sites	Ø			
	3) <u>Federal Land Managers</u> a) Annual visitation at National Parks/National Wildlife Refuges (e.g.	Midlife Refuges (e.g.			
	Katmai, Lake Clark). For certain specific desting	tain specific destinations records are kept			
	about visitor activities and characteristics. b) Numbers and trends in commercial use permits.	nits.			

4) Information is available and being sought on the stated intentions of cruise company service expansions in Alaska. Projections will be backed up by market evaluations of national and international trends in demand for cruise ship travel.

Cruise Ships AMHS

Marine

Table 5 (Continued)

Data Availability and Assessment Status

Visitor Travel

	Southwest A Existing	Southwest Alaska Transportation Plan Historical/Trends	an Projections	Comments/Status
Marine Cruise Ships AMHS Air Surface Highway	5) Southwest Alaska Municipal Conference (SWAMC) and the Alaska Dept. of Commerce and Economic Development - recently completed the Rural Alaska Tourism Infrastructure Needs Assessment which provides a general description of the primary toursim attributes, current visitation, potential for development, challenges to tourism development, tourism organizations, a listing of priority infrastructure development projects and other additional projects for the Aleutian and Pribilof Islands, Kodiak Island Borough, Bristol Bay and the Alaska Peninsula.	Conference (SWAMC) and the Alaska mic Development - recently completed atructure Needs Assessment which of the primary toursim attributes, current nent, challenges to tourism development, of priority infrastructure development ojects for the Aleutian and Pribilof Islands, Bay and the Alaska Peninsula.		
	 6) Other Sources of Tourism Information a) Several destinations maintain records of visitation, such as the King Salmon Visitor Center, Dillingham Chamber of Commerce, Kodiak Alutiiq Museum, and Unalaska Convention and Visitors Bureau. b) Alaska Village Initiatives - recently completed statewide survey of rural/Native-owned tourism businesses. c) Recently established taxes on tourism activity will begin to establish records of visitor activity, such as Unalaska's local bed tax. d) Consultant reports on tourism activities and trends, including work dome for Bristol Bay Native Association, and Bristol Bay Native 	tation, such as the King Commerce, Kodiak Alutiiq 's Bureau. d statewide survey of ly will begin to establish ocal bed tax. trends, including work iristol Bay Native		
	7) General Trends in Statewide/International Tourism Trade and marketing groups within Alaska, such as the Alaska Visitors Association (AVA), Alaska Wilderness Recreation and Tourism Association (AWRTA) and the Alaska Tourism Marketing Council (ATMC) have conducted recent studies of tourism trends. In addition, a large literature exists documenting national and international trends in traveler behavior, preferences and spending.	ourism the Alaska Visitors ion and Tourism Marketing Council (ATMC) Is. In addition, a large national trends in traveler		
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Table 6

Geographic Data Data Availability and Assessment Status Southwest Alaska Transportation Plan

Existing

Relevant data sources identified for this study include the following Geographic Information System (GIS) data:

1) Alaska Department of Natural Resources (DNR) GIS Data (have obtained data sets for the following: Alaska Coastline; Canadian Coastline; Coastline; Canadian Coastli former Soviet Far East; Major Rivers; Rivers; Lakes greater than 20 acres; Glaciers; Hypsography; Populated Places; Iditarod Trail; Railroads; Roads; Trans-Alaska Pipeline; 1994 Election District Boundaries; Borough Boundaries; Recording District Boundaries; ANCSA Corporation Boundaries; REAA Boundaries; Historic Transportation Routes (RS2477); Conservation System Unit Boundaries (ARC 7.0 coverage); and Legislatively Designated Areas); 2) Alaska Aviation System Plan Database (have obtained an Excel spreadsheet of the information contained in the Alaska Aviation System Plan Update. Based on the latitude and longitude contained in the spreadsheet, a variety of facility data for the airports contained in the inventory can be mapped.)

3) NOAA charts - raster-based GIS mapping is available. Data could be obtained for use in developing detailed marine alternatives for the plan, however the data doesn't appear to be necessary in developing presentation maps.

It appears that the mapping data available are sufficient for the needs of the study.

ADDITIONAL DATA NEEDS

The data inventory has determined the availability and adequacy of the data necessary to complete the Southwest Alaska Transportation Plan. In general, the data which has been identified as available is sufficient for the purposes of this project. Further data collection will consist of obtaining and compiling existing available data. No field data collection has been deemed necessary. The following lists specific data, if any, which need to be obtained by each data category.

DEMOGRAPHICS

Adequate data related to population, employment and community characteristics have been identified, are available and have been obtained.

MARINE TRANSPORTATION

Adequate data on the Alaska Marine Highway System (AMHS) have been identified and are available for both passenger and freight movements. The extent of marine freight movement data, both existing and historical, contained in the Army Corps of Engineers Water-Borne Commerce CD ROM is still being investigated. If the data on the CD ROM is not sufficient for study needs, the Army Corps has indicated that they can provide a custom sort of the raw data by request. The extent of the sorting capabilities are currently being investigated. A custom sort has been requested.

Additional information is being sought on private operators providing goods movement for residents and local businesses. It is assumed that much of this service is provided through scheduled barge service. Several steamship and barge operators have been contacted to obtain information on their routing, schedules and rates.

Adequate information regarding marine facilities has been identified, is available and has been obtained.

AIR TRANSPORTATION

Adequate data related to air carrier operations, for both passengers and freight, as well as aviation facilities have been identified and are available.

LAND TRANSPORTATION

General Purpose

Regarding roadway travel demand, data on public carrier passenger volumes is being sought and the adequacy of this data is still unknown. For private vehicles, link data by season is available, but origin-destination (O-D) data is not. Information on O-D patterns will be sought through the travel behavior survey.

Freight

For freight service, data on scheduled truck freight service routing and schedules does not appear to be available, although rate data is. The effects of this lack of data on the study process are being assessed.

O-D freight volume data for roadways does not appear to be available.

Facility Description

It appears that roadway facility descriptor data are available.

VISITOR DATA

Various sources of visitor travel data in the Southwest Alaska region have been identified. These sources are being further investigated to determine the extent of the data.

GEOGRAPHIC DATA

Adequate geographic data has been identified and is available.

BIBLIOGRAPHY

PRIMARY SOURCES

The following lists briefly annotated references containing information which will be of direct and primary use in the development of the Southwest Alaska Transportation Plan:

Alaska Business Publishing. 1996 Ports of Alaska Directory.

Contains technical data and maps on Southwest Alaska ports. Data varies by port and is not comprehensive.

Alaska Department of Transportation and Public Facilities. <u>Alaska Aviation System Plan</u>. 1996.

Important information on the Southwest aviation system is available from the Alaska Aviation System Plan. Presented in the appendix to the plan is an inventory of all airports in the Southwest Alaska area (public and private) (local, state, and federally managed), documenting the following features of each airport in the region. The following information can be found in the plan:

- 1. Airport locations
- 2. Facility Types
- 3. DOT&PF Class
- 4. Ownership (Entity)
- 5. Ownership (Public-Private)
- 6. Runway Surface
- 7. Runway Condition
- 8. Runway Length

Alaska Department of Transportation and Public Facilities. <u>Alaska Intermodal Transportation</u> <u>Plan</u>. 1995.

Provides description of waterborne, air, and land transportation networks and an intermodal project evaluation methodology; overviews of DOT&PF planning, intermodal system improvement needs, State policies; identifies financing, policy and physical improvement opportunities; and includes recommendations for implementing the plan.

Alaska Department of Transportation and Public Facilities. <u>Chignik Lagoon Airport Master</u> Plan. 1991.

Alaska Department of Transportation and Public Facilities. <u>Egegik Airport Master Plan</u>. 1992.

Alaska Department of Transportation and Public Facilities. <u>New Koliganek Airport Master Plan</u>. 1993.

Alaska Department of Transportation and Public Facilities. <u>Port Alsworth Airport Master Plan.</u> 1992.

Alaska Department of Transportation and Public Facilities. St. Paul Airport Master Plan. 1992.

Master Plans provide an inventory of airport services and facilities as well as historic and projected use data for passengers, aircraft operations, and freight volumes. Future facility needs and requirements are identified.

Alaska Department of Transportation and Public Facilities, Central Region Planning, Highway Data Section. Central Region Traffic Volume Report 1994, 1995, and 1996.

Includes information on traffic volumes (annual average daily traffic (AADT)), vehicle classification counts, and weigh-in-motion (WIM) data on commercial size vehicles (not included in report, but available on request and through the Internet at 146.63.95.10/ftp).

Alaska Department of Transportation and Public Facilities, Harbors Section. <u>1995 Alaska</u> Harbor and Boating Facilities Directory.

Includes comprehensive current information on facility location, layout, capacity, services, and fees.

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1994</u> <u>Annual Financial Report</u>.

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1995</u> Annual Financial Report.

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1996</u> <u>Annual Financial Report</u>.

Provide data on revenue and expenditures by vessel.

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1994</u> Annual Traffic Volume Report. March 1995

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1995</u> Annual Traffic Volume Report. March 1996

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1996</u> <u>Annual Traffic Volume Report</u>. March 1997

Reports provide data on passengers and vehicles embarking and disembarking by month, port and vessel, on passengers and vehicles by port origin and destination pair by vessel, and on passenger and vehicle link volumes by vessel.

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1992-93</u> Fall, Winter, Spring Schedule

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1993</u> Summer Schedule

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1993-1994 Fall, Winter, Spring Schedule</u>

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1994</u> Summer Schedule

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1994-</u> 1995 Fall, Winter, Spring Schedule

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1995</u> Spring, Summer Schedule

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1995-96</u> Fall, Winter, Spring Schedule

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1996</u> <u>Summer Schedule</u>

Alaska Department of Transportation and Public Facilities, Marine Highway System. <u>1996-97</u> Fall, Winter, Spring Schedule

Schedules provide data on routings, numbers of port calls, running times, and tariffs.

Lake and Peninsula Borough. <u>Lake and Peninsula Borough Intra-Village Road Project Priorities</u>. 1993.

Provides project descriptions, justification, and preliminary cost estimates for local road projects in the borough. Includes economic and traffic data analysis for the Iliamna Lake Scenic Highway, Iliamna-Nondalton and Chignik inter-village road systems.

Southwest Alaska Municipal Conference and Alaska Department of Commerce and Economic Development, Divisions of Trade and Development and Tourism. <u>Rural Alaska Tourism</u> <u>Infrastructure Needs Assessment</u>. 1997.

Includes three volumes pertinent to study area: Aleutian and Pribilof Islands, Kodiak Island Borough, and Bristol Bay and Alaska Peninsula. Each volume provides a general description of the area's access, primary tourism attributes, current visitation, potentials for development, challenges to tourism development, tourism organizations, listing of priority infrastructure development projects, listing of other additional projects, and a brief regional "snapshot."

US Army Corps of Engineers. The Ports of Southwest and Western Alaska. 1995.

Comprehensive data on major ports in the region including Dillingham, Dutch Harbor, and Kodiak.

US Army Corps of Engineers, Waterborne Commerce Statistics Center. <u>Waterborne</u> Commerce of the United States.

The Waterborne Commerce Statistics Center maintains a comprehensive database of marine freight data collected from shippers. However, due to confidentiality agreements with the shippers, release of this data is restricted.

US Army Corps of Engineers, Waterborne Commerce Statistics Center. <u>W United States</u> Waterway Data CD-ROM.

Contains data from the Army Corps of Engineers Navigation Data Center, the US Bureau of Census, the United States Coast Guard, Oak ridge National Laboratories and Vanderbilt University..

US Department of Transportation. Federal Aviation Administration. Airport Master Records.

FAA's Airport Master Records (form 5010s) contain important airport information for every airport in Southwest Alaska. The master records often include more current information that has been updated since the AASP inventory was conducted. Information on services, based aircraft, operations, facilities, runway data, lighting, obstructions, landing length, and airport ownership is provided in the airport master records. All of the airport master records for Southwest Alaska have been collected.

US Department of Transportation. Federal Aviation Administration. <u>Alaska Region Airport Improvement Program FY 1982 - FY 1996</u>.

Provides a history (project description and cost) of airport improvements between 1982 and 1996.

US Department of Transportation. Federal Aviation Administration. <u>FFY '98 Draft Alaska</u> Airport Improvement Program.

Indicates projects funded for the 1998 fiscal year.

US Department of Transportation. Federal Aviation Administration. Bureau of Transportation Statistics. <u>Airport Activity Statistics of Certificated Route Air Carriers</u>. 1990-96.

Enplaned revenue passengers and enplaned revenue tons of freight and mail carried by certificated route air carriers (mainline carriers) is provided from these reports.

US Department of Transportation. Federal Aviation Administration. Bureau of Transportation Statistics. <u>Commuter Air Carrier Activity</u>. 1990-96.

Commuter air carrier activity for hub airports summarizes the volume of passengers, cargo, and mail between the hub airport and the destination facilities. Trend information for the hub airports will be included in the technical discussion memo.

US Department of Transportation. Federal Aviation Administration. Bureau of Transportation Statistics. T-100 Market Data. 1990-96.

Commuter and mainline carriers data is available for both origin and destination. Commuter information indicates the passengers, mail, and freight that moved between communities, but is not origin-destination specific. Data for mainline carriers (certificated) indicates the origin and destination of passengers, mail, and freight. T100 market data will be collected for the most recent full year of data available. This information will be used to document the system flow, and will be used to map where, and how much is (passengers and freight) moving between communities.

SECONDARY SOURCES

The following references are available and may provide additional information to be used in the development of the Southwest Alaska Transportation Plan:

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